

Public Meeting
Assessment of Surface Soils in
LaSalle Park
Beck' Lake Proposed Superfund
Site, South Bend, IN

Charles Black Sr. Recreation Center

August 27, 2013



U.S. EPA Region 5

May 2013

- EPA Proposes the Beck's Lake Site to the Superfund National Priorities List (NPL)
- Principal Listing Criterion is surface soil arsenic concentrations exceeding 3X background
- This raises concerns about safety of LaSalle Park because EPA has only one soil sample from play areas.

June 2013

- June 11-12; EPA samples play areas in LaSalle Park
- Field screening results indicate that no use restrictions are necessary
- June 13; EPA holds Public Meeting to explain NPL Listing Process and field screening results

July 2013

- Comment period for the NPL Listing closed on July 23
- All comments can be viewed on the regulations.gov website, search for “**EPA-HQ-SFUND-2013-0196**”
- Only two comments were received

August 2013

- Lab test results become available and are posted on EPA website
- Results confirm that no use restrictions are necessary in LaSalle Park
- Public Meeting today

Park Sampling – Field Screening



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Park Sampling – Lab Samples



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Park Sampling - Strategy

- Soccer Fields; eight grids, five-point composite from each grid
- Baseball Diamond; three pie shape grids, five-point composite
- Playgrounds; biased discrete samples
- Beck's Lake; two shoreline samples
- Separate composites for hexavalent chromium

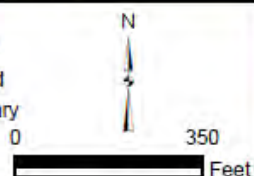
Image Source: ESRI Bing Maps

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Legend

- Discrete Sample
- Playground
- Composite Sample
- Soccer Field
- Baseball Diamond
- Site Boundary
- Lake AOC



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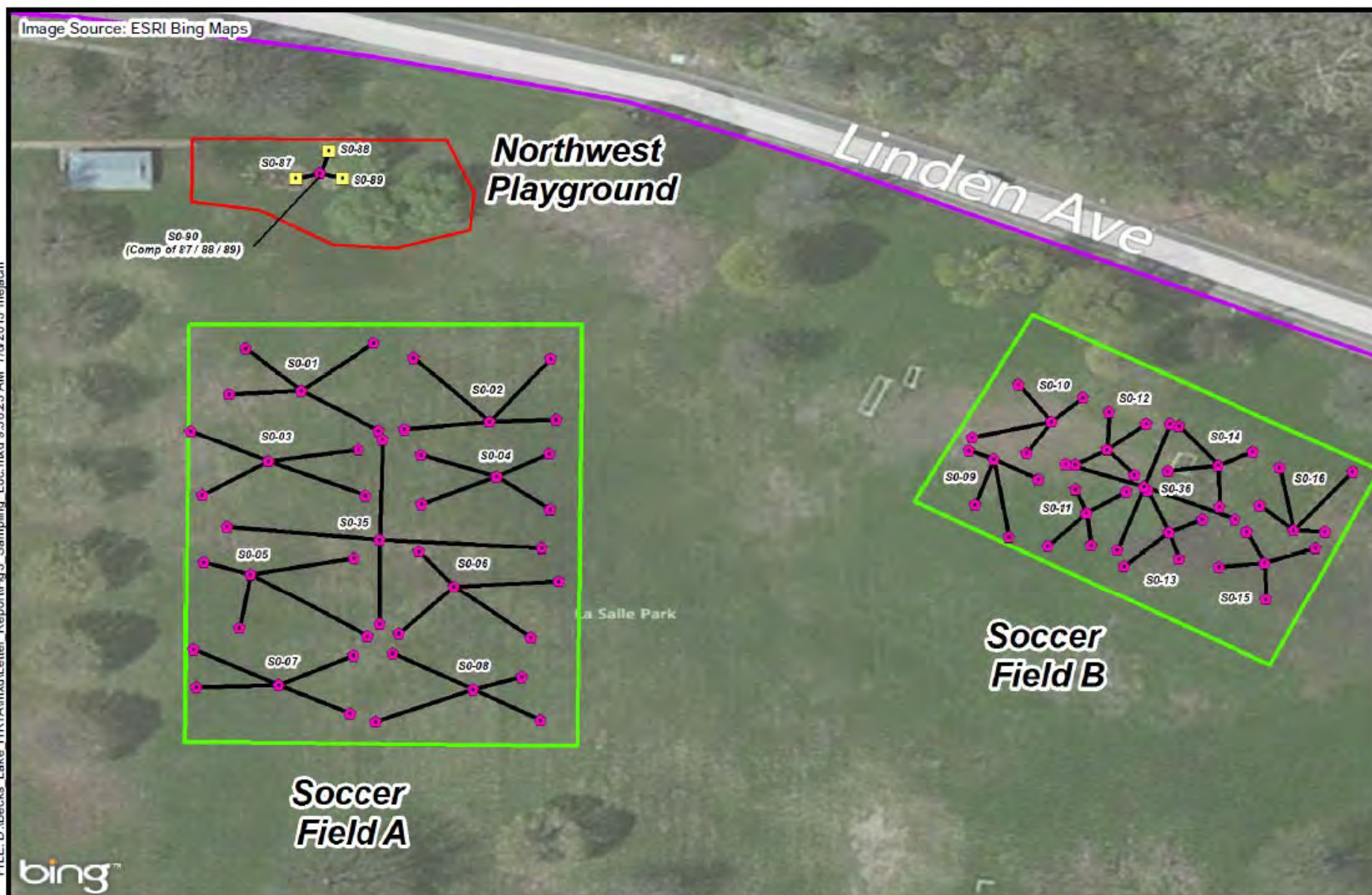
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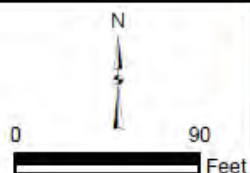
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Figure 2
Sampling Location Map
Beck's Lake Health Risk SA
South Bend, St Joseph County, Indiana



Legend

- Discrete Sample
- Composite Sample
- Soccer Field
- Site Boundary



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Figure 3
Sampling Location Map -
Soccer Field A/B and Northwest Playground
Beck's Lake Health Risk SA
South Bend, St Joseph County, Indiana

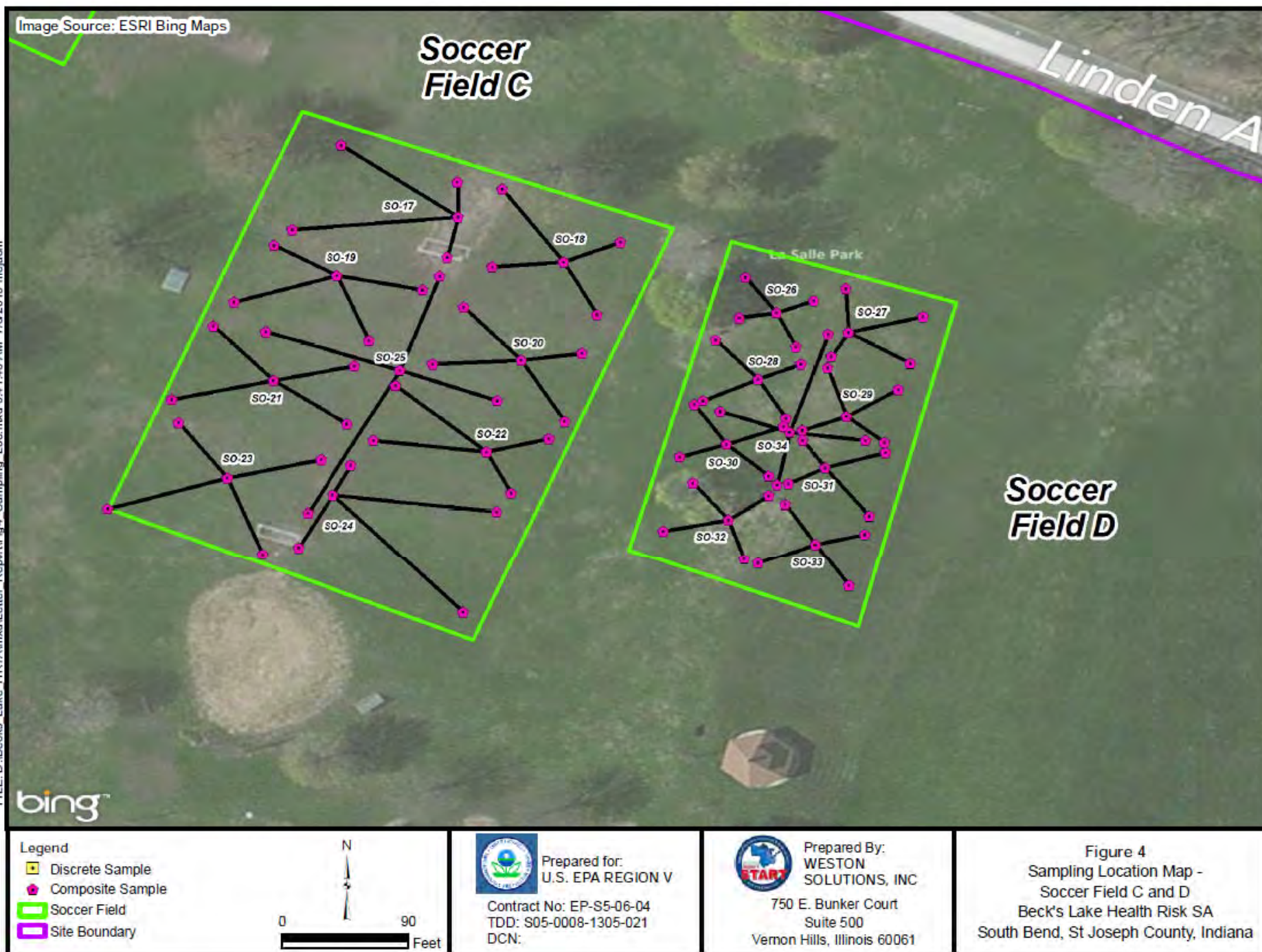


Image Source: ESRI Bing Maps

La Salle Park

Southwest
Playground

Parking Lot
Playground

Baseball
Diamond

Southeast
Playground

bing™

Legend

- Discrete Sample
- Composite Sample
- Site Boundary



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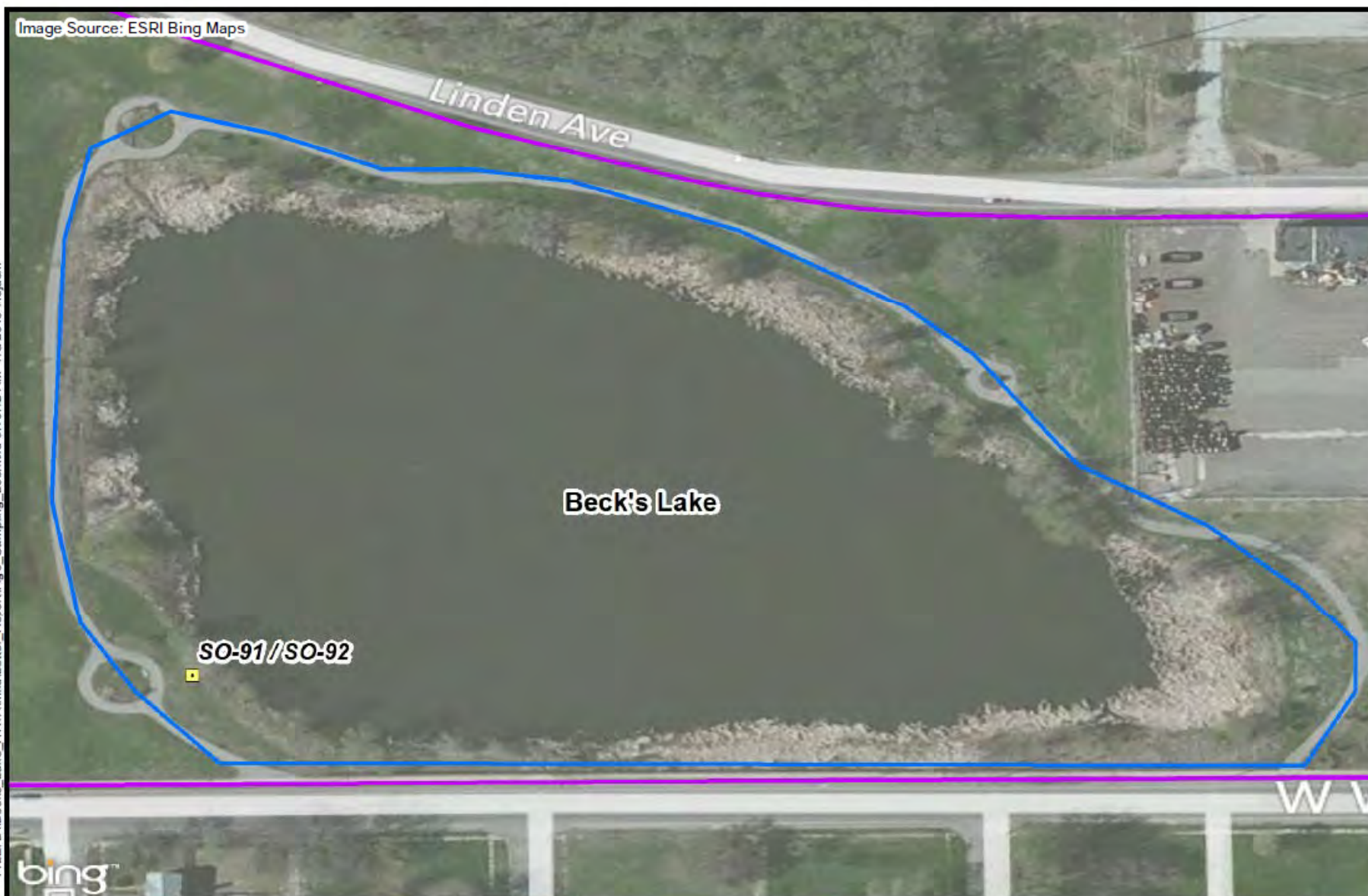


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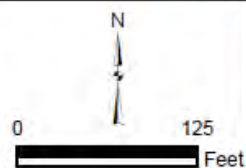
Figure 5
Sampling Location Map -
South Playgrounds and Baseball Diamond
Beck's Lake Health Risk SA
South Bend, St Joseph County, Indiana

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Legend

- Discrete Sample
- Composite Sample
- Site Boundary



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Figure 6
Sampling Location Map -
Beck's Lake Area
Beck's Lake Health Risk SA
South Bend, St Joseph County, Indiana

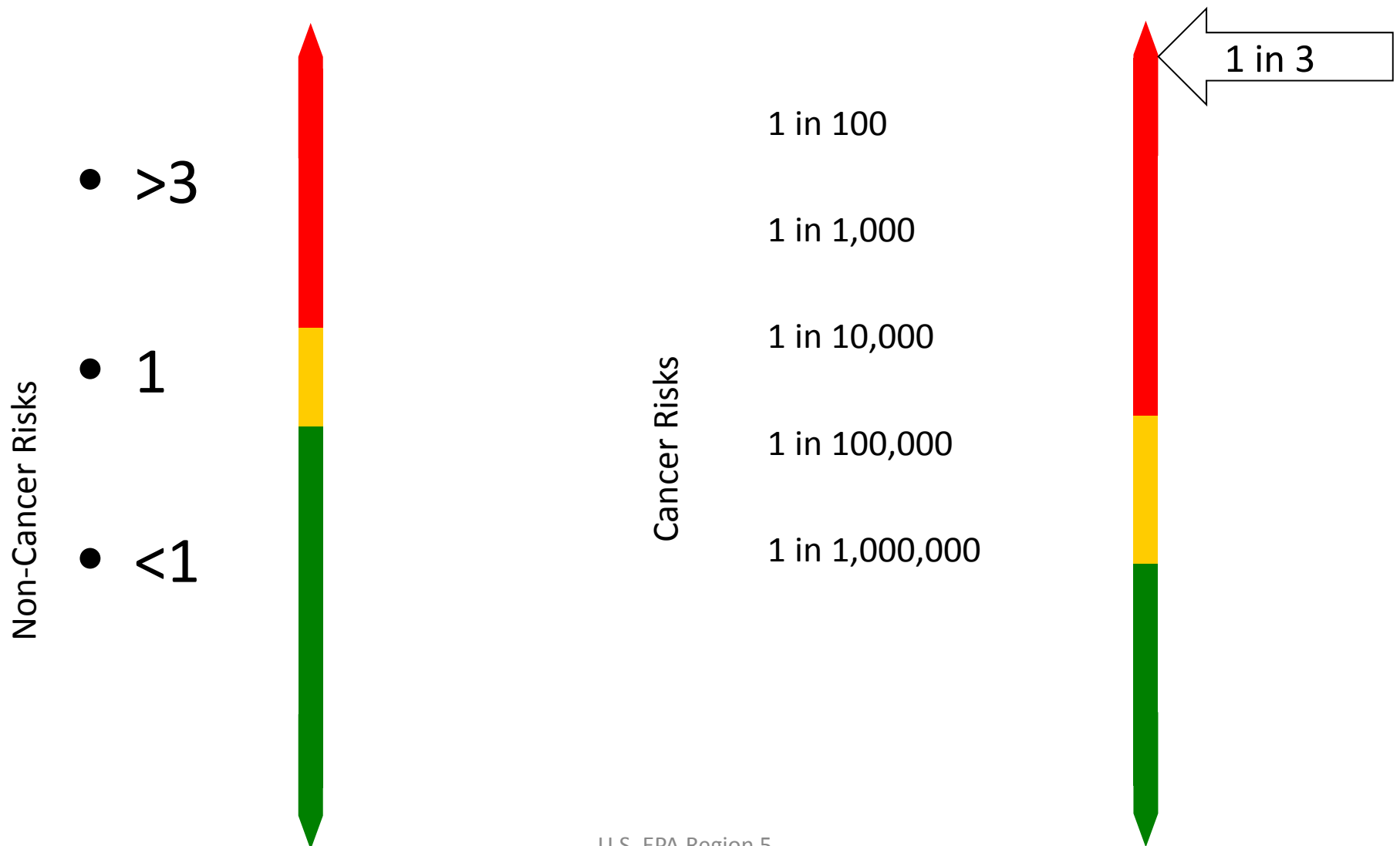
Lab Analytical Results

- All results passed quality control criteria
- 61 samples, including four duplicates
- Target Analyte List (TAL) Metals; No TAL metals exceeded residential removal management levels (RMLs)
- Hexavalent Chromium did not exceed residential RML of 29 mg/kg.

Residential Screening Levels

- Based upon someone being in an area for 24 hours a day, 350 days per year for 30 years.

EPA Recommended Risk Range



Health Risk Conclusions

- Arsenic
 - Residential Screening Level = 0.61 mg/kg
 - Removal Management Level = 61 mg/kg
 - USGS Background Level for St. Joseph County
 - 3.8 mg/kg to 41.5 mg/kg
 - Average 10.1 mg/kg
 - Site Specific Background
 - 9.7 mg/kg
 - Soil Concentration at LaSalle Park
 - Most data within US EPA recommended risk range
 - Southwest playground 29.6 mg/kg

Southwest Playground



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Contact Information

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